EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	7	"3689737"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/17 11:38
L6	1	("3689737").PN.	US-PGPUB; USPAT	OR	OFF	2009/08/17 11:38
S1	1	("2432870").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 12:57
S2	1	("2740987").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 12:57
S3	1	("3184795").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 12:57
S4	1	("2392842").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 12:58
S5	1	("5167891").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/05 12:58
S6	0	S1 and S2 and S3 and S4 and S5	US-PGPUB; USPAT	ADJ	ON	2009/01/05 12:58
S7	5	S1 or S2 or S3 or S4 or S5	US-PGPUB; USPAT	ADJ	ON	2009/01/05 12:58
S8	1	("2432870").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:10
S9	1	("2740987").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:10
S10	1	("3184795").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:10
S11	1	("2392842").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:10
S12	1	("5167891").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:10
S13	5	S8 or S9 or S10 or S11 or S12	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:10
S14	1	(S13 and (cut$4 or sever$3))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:10
S15	6	((ROBERT) near2 (DONOHUE)).INV.	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:19
S16	1	(S15 and carousel)	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:20
S17	298	(425/302.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:22
S18	159	(S17 and (cut$4 or sever$4))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:24

S19	24	(S17 and coil$4)	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:25
S20	1	(S17 and coil$4 and (turntable$2 or (turn adj2 table$2) or carousel $2))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:52
S21	2964	((coil$4 same (mandrel$2 or shaft $2 or tube$2)) and (turntable$2 or (turn adj2 table$2) or carousel $2))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:57
S22	1	("0000425").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:57
S23	75546	("425").CLAS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 14:57
S24	58	(S21 and S23)	US-PGPUB; USPAT	ADJ	ON	2009/03/19 14:58
S25	399	(425/391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:23
S26	14	(S25 and ((turntable$2 or (turn adj2 table$2) or carousel$2 or turret$2) or ((circular or circle or round$3 or rotat$4 surround$4) near12 (cutter$2 or cutting$2 or sever$4 or blade$2 or knife$2))))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 15:28
S27	1269	(coil$4 same ((cutter or cutting or sever$3) with (surround$4 or rotat $4 or encircle$3) with (mandrel or shaft or axle or axis or rod)))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 15:39
S28	677	(coil$4 with ((cutter or cutting or sever$3) with (surround$4 or rotat $4 or encircle$3) with (mandrel or shaft or axle or axis or rod)))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 15:40
S29	98	(coil$4 with ((cutter or cutting or sever$3) with (surround$4 or encircle$3) with (mandrel or shaft or axle or axis or rod)))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 15:41
S30	54	(coil$4 with ((cutter or cutting or sever$3) near8 (surround$4 or encircle$3)) with (mandrel or shaft or axle or axis or rod))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 15:44
S31	73	((cutter$3 near3 (surround$4 or encircle$3) near10 (mandrel or shaft or rod))	US-PGPUB; USPAT	ADJ	ON	2009/03/19 15:53
S32	1	((cutter$3 near3 (surround$4 or encircle$3) near10 (mandrel or shaft or rod) and coil$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/19 16:00
S33	1487	((coil$3 near4 (system or apparatus or device)) and (cutter or cutting))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/19 16:03
S34	17	((coil$3 near4 (system or apparatus or device)) and (cutter or cutting) and (turntable or (turn adj2 table) or carousel or turret))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/19 16:04

S35	1	("5167891").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/23 09:06
S36	1	("3431337").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/23 10:19
S37	399	(425/391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/23 10:24
S38	8	(S37 and cutter$2 and coil$3 and heat$4 and cool$4)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 10:24
S39	5	(cutter$2 and coil$3 and heat$4 and cool$4 and (helix$2 or helical $2))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 10:34
S40	104	(cutter$2 and coil$3 and (helix$2 or helical$2)) NOT S39	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 10:42
S41	1	("4870742").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/23 11:03
S42	0	("((stationary$2adj2inner $2adj2element$2)same(rotatable $2adj2outer$2adj2element$2) samecutter$3)").PN.	US-PGPUB; USPAT; FPRS; EPO; JPO	OR	OFF	2009/03/23 11:37
S43	1	((stationary$2 inner$2 adj2 element$2) same (rotatable$2 adj2 outer$2 adj2 element$2) same cutter$3)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 11:38
S44	4	((stationary$2 near4 inner$2) same (rotatable$2 near4 outer$2) same cutter$3)	US-PGPUB; USPAT; FPRS; EPO; JPO	ADJ	ON	2009/03/23 11:39
S45	1	((heat adj2 gun) and coil$4 and (helix$2 or helical$2) and S37)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 12:04
S46	1	((vortex near4 cool$4) and coil$4 and (helix$2 or helical$2) and S37)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 12:05
S47	3	((vortex near4 cool$4) and coil$4 and S37)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 12:05
S48	0	("(S23and(collect$4with(turntable $2or(turnadj2table)orcarousel $2)))").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/23 12:42
S49	75546	("425").CLAS.	US-PGPUB; USPAT	OR	OFF	2009/03/23 12:43
S50	36	(S49 and (collect$4 with (turntable $2 or (turn adj2 table) or carousel $2))	US-PGPUB; USPAT	ADJ	ON	2009/03/23 12:43
S51	0	((collect$4 with (turntable$2 or (turn adj2 table) or carousel$2)) same (efficien$4 near10 production))	US-PGPUB; USPAT	ADJ	ON	2009/03/23 12:53
S52	28	((collect$4 with (turntable$2 or (turn adj2 table) or carousel$2)) same (efficien$4))	US-PGPUB; USPAT	ADJ	ON	2009/03/23 12:53

S53	45	((collect$4 with (turntable$2 or (turn adj2 table) or carousel$2)) and (efficien$4))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 13:04
S54	2	((collect$4 same (turntable$2 or (turn adj2 table) or carousel$2)) same (stepwise$3 near4 rotat$4))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 14:00
S55	11	(((collect$4 or deposit$3 or deliver $3 or transport$3) same (turntable $2 or (turn adj2 table) or carousel $2)) same (stepwise$3 near4 rotat $4))	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/03/23 14:05
S56	4	(((collect$4 or deposit$3 or deliver $3 or transport$3) same (turntable $2 or (turn adj2 table) or carousel $2)) same (stepwise$3 near4 rotat $4) and (manufactur$4 near4 (process or apparatus or device or system)))	US-PGPUB; USPAT	ADJ	ON	2009/03/23 14:16
S57	1	("6264891").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/23 14:27
S58	358739	(S57 and stepwise and carousel or collect)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 14:27
S59	1	((S57) and stepwise and (carousel or collect))	US-PGPUB; USPAT	ADJ	ON	2009/03/23 14:28
S60	23	(414/22.66).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/23 14:35
S61	0	(245/340).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/23 15:32
S62	177	(425/340).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/23 15:32
S63	6	(S62 and coil$3)	US-PGPUB; USPAT	ADJ	ON	2009/03/23 15:33
S64	7	(S62 and (turntable$2 or carousel $2))	US-PGPUB; USPAT	ADJ	ON	2009/03/23 15:34
S65	6	(coil$2 same platic same (tubing or tube))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 12:04
S66	3999	(coil$2 same (plastic near4 (tubing or tube)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 12:19
S67	1862	(coil$3 with (plastic near4 (tubing or tube)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 12:19

S68	648	(coil$3 with (plastic near4 (tubing or tube)) and (mandrel or shaft))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 12:20
S69	114	(coil$3 with (plastic near4 (tubing or tube)) and (mandrel or shaft and heating and cooling)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 12:40
S70	400	(425/391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/07/31 13:15
S71	60	(S70 and (tube or tubing or conduit$1 of hollow))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 13:16
S72	93	(S70 and (tube or tubing or conduit$1 or hollow))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 13:17
S73	41	(coil$3 with (plastic near4 (tubing or tube)) and (mandrel or shaft) and heating and cooling and (cutting or severing or cut or sever) and extrud$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 13:18
S74	10	(coil$3 with (plastic near4 (tubing or tube)) and (mandrel or shaft) and heating and cooling and (cutting or severing or cut or sever) and extrud$3 and taper$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 13:19
S75	90	(S70 and (tube or tubing or conduit$1 or hollow)) not S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/31 13:24
S76	2	((ROBERT) near2 (DONOHUE)).INV.	FPRS; EPO; JPO; DERWENT	ADJ	ON	2009/08/10 10:54
S77	9	("3454695").URPN.	USPAT	ADJ	ON	2009/08/10 10:58
S78	380	(coil$3 with (plastic near4 (tubing or tube)) and (mandrel or shaft) and (guide or guiding))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:11

S79	392	(coil$3 with (plastic near4 (tubing or tube or hose)) and (mandrel or shaft) and (guide or guiding))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:12
S80	114	(coil$3 with (plastic near4 (tubing or tube)) and (mandrel or shaft) and heating and cooling)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:19
S81	330	(coil$3 with (plastic near4 (tubing or tube or hose)) and (mandrel or shaft) and (guide or guiding)) not S80	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:19
S82	5	((coiling adj2 (device or apparatus)) and (plastic near4 (tubing or tube or hose)) and (mandrel or shaft) and (guide or guiding)) not (S80 or S81)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:36
S83	18	((coiling adj2 (device or apparatus)) and (plastic near4 (tubing or tube or hose))) not (S80 or S81 or S82)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:41
S84	2195	(coiling adj2 (device or apparatus))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:43
S85	400	(425/391).OCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/10 11:44
S86	93	(S85 and (tube or tubing or conduit$1 or hollow))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:44
S87	2164	(coiling adj2 (device or apparatus)) not (S79 or S83 or S86)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:44
S88	177	(S87 and (tubing or tube or tubes or hose or hoses) and heat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 11:46

S89	763	(425/319,320,322,327).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/10 13:21
S90	67	(S89 and (coil$3 or helix$2 or helical$2) and (mandrel$2 or shaft $2 or tube$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:22
S91	851	(425/340,302.1,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/10 13:43
S92	103	(S91 and (coil$3 or helix$2 or helical$2) and (mandrel$2 or shaft $2 or tube$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:43
S93	84	(S91 and (coil$3 or helix$2 or helical$2) and (mandrel$2 or shaft $2 or tube$2)) not S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:44
S94	1554	(S89 or S91)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:57
S95	0	(S94 and (guide means))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:57
S96	366	(S94 and (guide or guiding or directing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:58
S97	52	(S94 and ((guide or guiding or directing) same (coil$3 or helix$2 or helical$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 13:58
S98	13479	(heat$3 and cool$3 and ((guide or guiding or directing) same (coil$3 or helix$2 or helical$2)) and (mandrel$2 or shaft$2 or tube$2) and (cut or cutting or sever$3 or (preselected near3 length$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:08

S99	13479	(heat$3 and cool$3 and ((guide or guiding or directing) same (coil$3 or helix$2 or helical$2)) and (mandrel$2 or shaft$2 or tube$2) and (cut or cutting or sever$3 or preselected near3 length$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:10
S100	2557	(heat$3 and cool$3 and (((guide or guiding or directing) with (coil $3 or helix$2 or helical$2)) same (mandrel$2 or shaft$2 or tube$2)) and (cut or cutting or sever$3 or preselected near3 length$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:11
S101	1459	(heat$3 and cool$3 and (((guide or guiding or directing) with (coil $3 or helix$2 or helical$2)) with (mandrel$2 or shaft$2 or tube$2)) and (cut or cutting or sever$3 or preselected near3 length$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:12
S102	990	(heat$3 and cool$3 and (((guide or guiding or directing) with (coil $3 or helix$2 or helical$2)) with (mandrel$2 or shaft$2 or tube$2)) and (cut or cutting or sever or severing or severed or preselected near3 length$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:14
S103	541	(heat$3 and cool$3 and (((guide or guiding or directing) with (coil $3 or helix$2 or helical$2)) with (mandrel$2 or shaft$2)) and (cut or cutting or sever or severing or severed or preselected near3 length$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:14
S104	288	425/391	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:27
S105	277	425/302.1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:27
S106	12	(S104 and S105)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 14:27
S107	400	(425/391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/10 14:32
S108	1197	(425/302.1,308).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/10 14:35
S109	654	(425/319,320,322,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/10 14:35

S110	31	(S108 and S109)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/10 14:35
S111	25	(S108 and S109) not S106	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/10 14:35
S112	603	425/289	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/10 14:42
S113	10	(S112 and S109)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/10 14:42
S114	25	(S109 and ((guide or guiding or directing) same (coil$3 or helix$2 or helical$2 or spiral$3)) and (cut or cutting or sever or severed or severing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/10 16:05
S115	471	(425/322,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 15:38
S116	763	(425/319,320,322,327).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 15:39
S117	67	(S116 and (coil$3 or helix$2 or helical$2) and (mandrel$2 or shaft $2 or tube$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/11 15:39
S118	851	(425/340,302.1,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 15:39
S119	84	(S118 and (coil$3 or helix$2 or helical$2) and (mandrel$2 or shaft $2 or tube$2)) not S117	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/11 15:39
S120	1554	(S116 or S118)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/11 15:39

S121	52	(S120 and ((guide or guiding or directing) same (coil$3 or helix$2 or helical$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/11 15:39
S122	1197	(425/302.1,308).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 15:39
S123	654	(425/319,320,322,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 15:39
S124	31	(S122 and S123)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/11 15:39
S125	25	(S123 and ((guide or guiding or directing) same (coil$3 or helix$2 or helical$2 or spiral$3)) and (cut or cutting or sever or severed or severing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/08/11 15:39
S126	374	S115 not (S119 or S121 or S124 or S125)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/11 15:39
S127	0	425/319,320	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/11 16:36
S128	224	(425/319,320).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 16:36
S129	177	S128 not (S119 or S121 or S124 or S125 or S115)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/11 16:37
S130	145	(425/321).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/11 16:41
S131	177	S129 not (S119 or S121 or S124 or S125 or S115)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/11 16:41
S132	112	S130 not (S119 or S121 or S124 or S125 or S115)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/11 16:42

S133	43450	(zipper or (slide adj2 fastener))	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:13
S134	6838	((zipper or (slide adj2 fastener)) and cool$3 and (cut$3 or sever $3))	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:14
S135	185	(264/281).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/12 14:20
S136	765	(425/319-322,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/12 14:22
S137	894	(S135 or S136)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/12 14:22
S138	4	(S134 and S137)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/12 14:23
S139	13	("2395920" | "3212137").PN. OR ("3770361").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/08/12 14:27
S140	21	((zipper or (slide adj2 fastener)) and (cooler or (cooling adj2 means)) and (cutter or (cutting adj2 means)))	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:34
S141	0	(((helicoidal or spiral or helical) near3 (slide adj2 fastener)) and (cooler or (cooling adj2 means)) and (cutter or (cutting adj2 means)))	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:38
S142	0	(((helicoidal or spiral or helical) near3 (slide adj2 fastener)) and (cutter or (cutting adj2 means)))	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:39
S143	1	((zipper or (slide adj2 fastener)) and (cutter or (cutting adj2 means))) and S137	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:39
S144	8	((zipper or (slide adj2 fastener)) and (cut$4)) and S137	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:42
S145	42	((zipper or (slide adj2 fastener)) and S137) not S144	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:47
S146	5894	(425/289-316).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/12 14:49
S147	0	((zipper or (slide adj2 fastener)) and S137 and S146)	US-PGPUB; USPAT	ADJ	ON	2009/08/12 14:49
S148	185	(264/281).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/13 12:07
S149	765	(425/319-322,391).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/13 12:07

S150	894	(S148 or S149)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 12:07
S151	5894	(425/289-316).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/08/13 12:07
S152	113	(S150 and S151)	US-PGPUB; USPAT	ADJ	ON	2009/08/13 12:07
S153	82	(S149 and friction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 12:21
S154	41	(S149 and polyethylene)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 12:42
S155	0	((((ultra-high molecular weight polyethylene) or (UHMW polyethylene)) near8 mandrel) same friction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:02
S156	0	((((ultra-high molecular weight polyethylene) or (UHMW polyethylene)) near8 mandrel) same friction$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:02
S157	13	((((ultra-high molecular weight polyethylene) or (UHMW polyethylene)) with (mandrel or shaft)) same friction$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:03
S158	6	(((ultra-high molecular weight polyethylene) or (UHMW polyethylene)) near15 (mandrel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:15
S159	82	(S149 and (friction same friction))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:40

S160	4	(S149 and (friction same taper))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:40
S161	3	(S149 and ((madrel or shaft) with taper$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:44
S162	30	(S149 and taper)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:51
S163	50	(S149 and taper$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 13:51
S164	4538	(((madrel or shaft) near15 taper $3) same friction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 14:07
S165	1283	(((madrel or shaft) near15 taper $3) with friction)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 14:07
S166	144	((((madrel or shaft) near15 taper $3) with friction) same (coil$3 or spiral or helix or helical$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 14:08
S167	11	(vortex cooling tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 16:07
S168	202	(vortex near2 cooling near2 tube)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/08/13 16:09

| S169 | 5358 | (heat adj2 gun) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/13 16:17 |
| S170 | 134 | ((heat adj2 gun) with plastic) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2009/08/13 16:17 |

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